



COUNTY OF LOS ANGELES

DEPARTMENT OF PUBLIC WORKS

"To Enrich Lives Through Effective and Caring Service"

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GAIL FARBER, Director

ADDRESS ALL CORRESPONDENCE TO:
P.O. BOX 1460
ALHAMBRA, CALIFORNIA 91802-1460

June 09, 2010

The Honorable Board of Supervisors
County of Los Angeles
383 Kenneth Hahn Hall of Administration
500 West Temple Street
Los Angeles, California 90012

Dear Supervisors:

ADOPTED

BOARD OF SUPERVISORS
COUNTY OF LOS ANGELES

#52 JUNE 9, 2010

Sachi A. Hamai
SACHI A. HAMAI
EXECUTIVE OFFICER

**ADOPT AND AUTHORIZE THE COUNTY PURCHASING AGENT
TO PROCEED WITH THE ACQUISITION OF THE REPLACEMENT
OF THE PACOIMA DAM HOIST ASSEMBLY
IN THE UNINCORPORATED AREA OF PACOIMA
(SUPERVISORIAL DISTRICT 5)
(3 VOTES)**

SUBJECT

This action is to approve the solicitation for bids to replace the Pacoima Dam Hoist Assembly which was destroyed in the 2008 Sayre Fire in the unincorporated area of Pacoima. This action would also adopt the plans and specifications and authorize the County Purchasing Agent to proceed with the acquisition of the replacement of the Pacoima Dam Hoist Assembly. The County Purchasing Agent would award, execute, and implement a contract with the apparent responsible contractor with the lowest responsive bid.

IT IS RECOMMENDED THAT YOUR BOARD ACTING AS THE GOVERNING BODY OF THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT:

1. Authorize the County Purchasing Agent to solicit bids and proceed with the acquisition of the replacement of the destroyed Pacoima Dam Hoist Assembly. Funding is available in Fiscal Year 2009 10 Los Angeles County Flood Control District Fund.
2. Approve the project and adopt the plans and specifications for the Pacoima Dam Hoist Assembly for an estimated cost of \$600,000.
3. Authorize the County Purchasing Agent to award and execute a purchase order with the apparent

responsible contractor with the lowest responsive bid within the estimated cost range, approve the Faithful Performance and Labor and Material Bonds and insurance submitted by the contractor, and deliver the project.

PURPOSE/JUSTIFICATION OF RECOMMENDED ACTION

The purpose of the recommended actions is to enable the Department of Public Works (Public Works) to purchase a Hoist Assembly for Pacoima Dam.

Your Board's approval of the recommended items and their subsequent solicitation will enable the timely acquisition of the needed Hoist Assembly which will support the operation and maintenance of Pacoima Dam.

Implementation of Strategic Plan Goals

The Countywide Strategic Plan directs the provision of Operational Effectiveness (Goal 1), Community and Municipal Services (Goal 3), and Public Safety (Goal 5). This action will enable Public Works to continue to provide County residents with enhanced, responsive, and efficient maintenance services.

FISCAL IMPACT/FINANCING

There will be no impact to the County General Fund. The cost for this acquisition is estimated to be \$600,000. There is sufficient funding in the Fiscal Year 2009-10 Los Angeles County Flood Control District Fund.

FACTS AND PROVISIONS/LEGAL REQUIREMENTS

The 2008 Sayre Fire destroyed the Pacoima Dam Hoist Assembly. Your Board's approval of the recommended actions will enable Public Works to continue to maintain and service the valves within Pacoima Dam which are critical to the overall operation of the facility. The cost of the replacement Hoist Assembly is approximately \$600,000.

Enclosed are the description and justification for the Pacoima Dam Hoist Assembly replacement.

ENVIRONMENTAL DOCUMENTATION

In accordance with Section 15378(b)(4) of the California Environmental Quality Act (CEQA) Guidelines, approval of the recommended actions does not constitute a project and, hence, is not subject to the requirements of CEQA.

CONTRACTING PROCESS

This project will be contracted on an open-competitive bid basis. The award by the County Purchasing Agent will be made after review of the bids and determination of the lowest responsive bid and responsible contractor meeting the criteria established by your Board and the State Public Contract Code.

To increase contractor awareness of Public Works' program to contract work out to the private sector, this project will be listed on the County website for upcoming bids.

IMPACT ON CURRENT SERVICES (OR PROJECTS)

Once the Hoist Assembly has been installed and functional, it will have a positive impact by allowing Pacoima Dam personnel to safely hoist heavy equipments such as valves, valve operators, sluice gate assemblies, drilling and construction equipment necessary for the operation and maintenance of Pacoima Dam.

CONCLUSION

Please return three adopted copies of this letter to Public Works, Flood Maintenance Division.

Respectfully submitted,

A handwritten signature in cursive script that reads "Gail Farber".

GAIL FARBER
Director

GF:RL:ag

Enclosures

c: Chief Executive Office
County Counsel
Executive Office

LOS ANGELES COUNTY DEPARTMENT OF PUBLIC WORKS

SPECIFICATIONS

For: Purchase of an LPG Engine-Driven Double Drum Winch Hoist and Appurtenances
 Specification No. _____ Requisition No. _____ Quotation No. _____
 Make _____ Model _____
 Vendor: _____ Bid Prepared By: _____
 Address: _____ Phone: _____ Fax: _____

NOTICE: Bidder shall complete right hand column, indicating specific size and/or make and model of all components when not exactly as specified. State "As Specified" if item is exactly as shown in left column. Return this questionnaire to the Los Angeles County Purchasing Agent.

BIDDER'S RESPONSE

General

The winch hoist unit shall consists of two friction drum arranged in a stepped formation, driven by a LPG fueled engine, through a single stage torque converter, and chain drive gear system, mounted on a rigid common welded steel skid base.

The hoist shall be Model 9.5-243, as manufactured by Superior-Lidgerwood-Mundy Corporation of Superior, Wisconsin, or an approved equal.

Hoist Performance Requirements and Capacities

The hoist will be used for hoisting heavy equipment such as valves, valve operators, sluice gate assemblies, drilling and construction equipment, tools and debris cleanout materials. The hoist shall be capable of providing variable speeds at high loads without overloading the hoist or engine components. The load may be lowered using the hoist drum brake, or held statically indefinitely in certain severe operations.

- Single Line Pull Capacity: 5,800 lbs. min. on ninth layer
- Single Line Speed: 20 FPM to 395 FPM
- Load Holding via Torque Converter: 5,800 lbs. min. without use of brake
- Both drums shall rotate in same direction and wind rope in over drum

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S P E C I F I C A T I O N S

Drums

The drum barrel shall be 12" diameter, 20 3/8" long, with 24" diameter flanges. The drum shall have a capacity to stow 1,312 feet of 5/8" diameter wire rope within 9 layers on the drum. One side of the drum shall have an extra wide (7" minimum) brake rim, and the other side has a rim for engagement with the contracting band clutch. Brakes shall be spring set and air released. Clutch shall be air set and spring release. The drums shall be fabricated from high grade carbon steel, stress relieved, and fully machined for precision fit with the mating components.

Drum Shaft

Drum shafts shall be precision machined from alloy steel, and turn in anti-friction bearings. The bearing pillow block shall be mounted on top of the side frame to permit easy removal of the shaft. The drum shall be mounted to the shaft through tapered bearings that allow the drum and shaft to rotate independently while the clutch is disengaged.

Drive System

Engine power shall transmits through a chain drive and gear system.

Brake

Friction brake shall be two-piece single acting band type, lined with non-asbestos material. The brake shall be actuated by a heavy compression spring and released by a clevis-mounted air cylinder.

Clutch

Friction clutch shall be air-controlled and spring released to provide smooth, fast responding control of the drum. The clutch / gear shall be keyed to the shaft to transfer power to the shaft from the pinion.

Pawl and Ratchet

The drum shall be equipped with a spring loaded pawl and ratchet to hold the load when the brake and clutch is disengaged.

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SPECIFICATIONS

Bed and Side Frame

The equipment mounting skid base and frame shall be heavy welded steel with accurately machined surfaces for bolted on components, and shall sufficiently absorb severe operational shocks.

Operator Control Station

The operator control station shall be mounted for convenient operation, easy reach and viewing. The control stand shall be equipped with an upholstered cushioned seat.

Torque Converter

A single stage torque converter shall be furnished to provide added flexibility in controlling the load over a wider engine speed range.

Air Compressor

An air compressor shall be furnished to supply air to operate the brake, clutch, and pawl. The air compressor shall be powered from the engine.

Safety Guards

The hoist shall have chain and gear safety guards in conformance to all applicable OSHA standards.

Wire Rope For Hoist and Haul Line

Each of the two winch drums shall be furnished to include 1,350 feet of 5/8" wire rope to be used to replace the existing hoist and haul lines.

Wire rope shall be: 5/8" Dia., 6X37 Classification, regular lay, IWRC, XIP, 20.6 Tons breaking strength.

Engine Power Unit

An internal combustion engine, fueled by liquefied petroleum gas (LPG) shall be furnished to drive the winch hoist. The power unit shall have sheet metal housing with side panels to enclose the engine and its major engine accessories. The engine power unit shall be mounted onto the hoist frame base skid. The power unit capacity shall meet the demand of the hoist.

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SPECIFICATIONS

Engine Power Unit (Cont.)

A single-stage torque converter shall be furnished for transferring power from the engine to hoist.

The engine shall be naturally aspirated, spark ignited, four cycle, with a total displacement not less than 638 cubic inch. The engine shall be rated not less than 140 continuous horsepower at 1,800 RPM, based on SAE J1349 standard conditions, with fuel of 900 Btu/cu ft. LHV value.

The engines shall be the product of a manufacturer regularly engaged in the production of gas engines for a minimum of 15 years. The engine manufacturer shall be ISO-9001 certified.

The engine shall be Caterpillar Model G3306 or an approved equal.

Engine And Requirements

The engine power unit shall include but not limited to the following accessories and components. It shall be understood that the supplier is responsible to furnish and install any other items not specifically listed, to provide a complete power unit for the proposed application.

- Flywheel and SAE Housing
- Crankshaft Vibration Damper and Pulley
- Governor (hydro-mechanical)
- Carburetor Assembly
- Gas Regulator
- Air Cleaner Assembly (single-stage, dry type)
- Solid State Ignition System
- Ignition Cables and Spark Plugs
- Starting Motor (12V)
- Battery
- Radiator and Fan Assembly
- Water Pump (gear driven)
- Thermostat and housing
- Lubricating Oil Cooler
- Oil Filter Assembly
- Exhaust Manifold (water cooled)
- Instrument Panel (to include following:)
 - Oil Pressure Gauge
 - Oil Temperature
 - Water Temperature Gauge
 - Ammeter
 - Engine Run Hour Meter

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S P E C I F I C A T I O N S

Engine And Requirements (Cont.)

- Tachometer
- Starter Switch
- Ignition Switch
- Manual Shut-Off Switch

Painting

The external metal surfaces of the engine power unit and hoist frame shall have shop applied manufacturer's standard paint coating. The sheet metal housing shall be painted inside and out. Color shall be Gray-ANSI No. 61.

Drawing and Data Sheets

The supplier shall submit drawings and data sheets of the proposed engine and hoist assembly to substantiate that it conforms to these specifications.

Drawings shall be of a size and scale to clearly show all necessary details, dimensions, clearances, finishes, materials, and other pertinent data. Drawing shall include, but not limited to the following:

- Hoist Assembly drawing showing hoist, engine power unit, torque converter, cable drums, operator station, instrument panel, and mounting skid rail frame with overall assembly dimensions. Front, side, and top views of hoisting unit shall be shown
- Engine dimensional drawing showing all major components and accessories

Data sheets may consist of manufacturer's published brochures, catalog cut sheets, technical bulletins, or product specification sheets. Data shall be specific for the item to be furnished and not general for a line of products.

The Supplier shall submit supporting information to include, but not limited to the following items to be furnished:

- Hoist assembly and components
- Engine with components and accessories
- Engine performance curve
- Torque converter
- Wire rope

LOS ANGELES COUNTY DEPARTMENT OF PUBLIC WORKS

SPECIFICATIONS

Drawing and Data Sheets (Cont.)

Drawings and Technical Data Sheets shall be clearly identified with "Pacoima Dam Winch Hoist" and be sent directly to the Department's Design Division for review and approval:

Los Angeles County Department of Public Works
Design Division – Mechanical Engineering Section
P.O. Box 1460
Alhambra, CA 91802-1460

Approval of drawings and data sheets is required prior to fabrication and delivery of the equipment.

Delivery

Upon approval of the proposed equipment and an order is received, the supplier shall deliver the Engine and Hoist Assembly mounted as a unit on the skid frame. The Hoist Assembly shall be delivered FOB to:

Pacoima Dam and Reservoir
15300 North Pacoima Canyon Road
Pacoima, CA 91331

Contact Mr. Cung Nguyen at 818 896-0594 to make arrangements for delivery.

Operation and Maintenance Manuals

The equipment supplier shall submit six complete bound together sets of instruction manuals and parts catalogs to include the following items:

- Hoist Assembly
- Engine Power Unit and Accessories
- Torque converter
- Wire Rope

Final "As-Built" drawings of the equipment furnished shall be submitted with the Operation and Maintenance manuals.

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S P E C I F I C A T I O N S

Permits & Regulations

The equipment and any other pertinent regulations shall conform in all respects to the Division of Industrial Safety Orders Cal/OSHA, ANSI and California South Coast Air Quality Management District (SCAQMD). Bidder may be required to furnish proof of compliance. Bidder will be responsible to supply the Department with required permits and licenses. This equipment shall meet or exceed noise emission limits applicable to Federal and Cal / OSHA requirements for operators on eight (8) hours operation without hearing protection.

Training Required

Once the equipment is put into service the awarded vendor will be required to provide up to eight (8) hours, as determined by Public Works, of training for the equipment. Training must be conducted by a qualified factory representative covering operation and maintenance. Training will be at a location that has been mutually agreed upon.

The awarded vendor is responsible for providing Public Works a copy of the training materials in advance of the training session. Public Works will review the materials and provide the awarded vendor any required additions or changes to the material. The trainer shall send Public Works a completed sign in sheet for each training class that includes the printed names and signatures of all participants and trainees.

Department's LOCKOUT/BLOCKOUT Standards

Capability for lockout must include an opening for a lock at the main disconnects switch and/or valves. The valves shall be lockable after being bled. If the equipment, as supplied by its original manufacturer, does not provided for this capability, it must be provided with the necessary hardware to meet these requirement without compromising any safety or operational features of the equipment or machinery. Additionally, any equipment or machinery offered shall include permanent labeling of all lockout points.

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S P E C I F I C A T I O N S

Department's LOCKOUT/BLOCKOUT Standards
(Cont.)

Bidder shall describe, as part of the bid submittal, a functional lockout tagout standard operating procedure describing how equipment or machinery is to be locked out and where it can be tagged out. The lockout devices needed to adhere to the standard operating procedure must be provided with the equipment or machinery, and it should be included in the bid price.

Revisits:

VENDOR SHALL INCLUDE IN THE BID PRICE (if requested), the cost of a revisit to the equipment approximately thirty (30) days after it is placed in service. The revisit shall include the following:

Check all operating systems for proper operation and adjustment.

Check equipment visually for leaks and material defects.

Vendor shall notify the Department at least twenty-four (24) hours prior to the revisits.

Warranty

A One-Year Written Warranty shall be provided by the supplier or equipment manufacture which guarantees that the hoist and engine assembly shall perform as specified. Supplier shall agree to repair or replace any equipment furnished due to defects in materials or workmanship. The warranty shall be effective on the date of installation or 1½ years from the date of delivery, whichever occurs first.

Engine Emission Warranty

The engine and its emission controls shall meet all California requirements for five (5) years from the date it is put into service. This shall include all parts, labor, and drive time.

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S P E C I F I C A T I O N S

Extended Warranty Quote

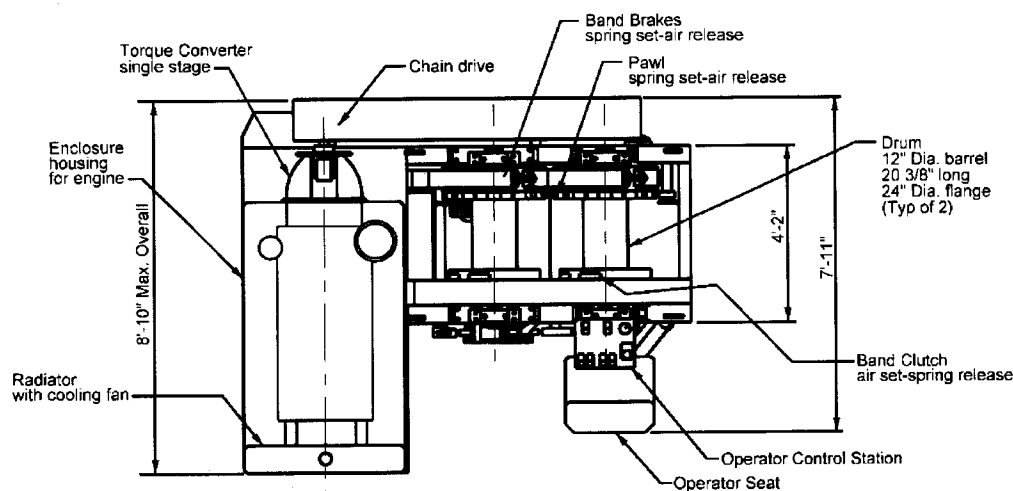
If an extended warranty is available, please quote available extended warranty options. Any additional costs for an extended warranty will NOT be considered in determining the lowest reasonable bid.

Contact

Peter Chang
Los Angeles County Department of Public Works
900 South Fremont Avenue
Alhambra, CA 91802
Telephone: 626-458-7822

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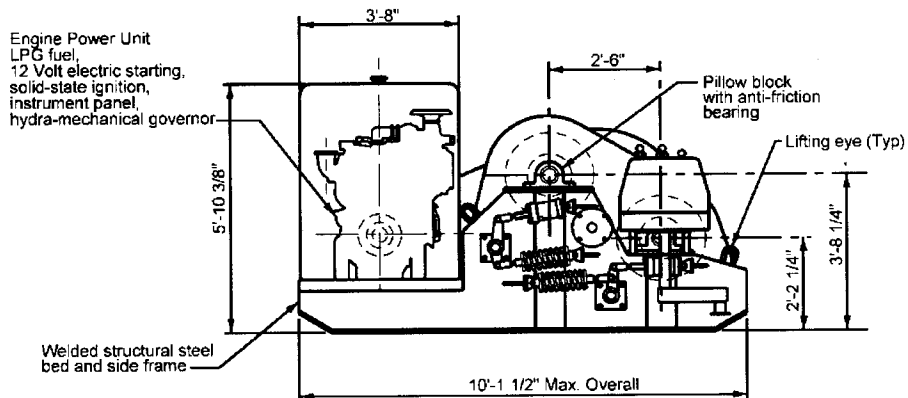
SPECIFICATIONS

**NOTE:**

- Envelope dimensions of hoist assembly to be furnished shall not exceed dimensions shown.
- Each drum shall be furnished with 1350 feet wire rope: 5/8" Dia., 6X37 regular lay, IWRC, XIP, 20.6 Tons breaking strength.

HOIST REQUIREMENTS AND CAPACITIES

Single Line Pull Capacity: 5800 Lbs. min.
 Single Line Speed: 20 FPM to 395 FPM
 Drum Size: 12" Dia. X 20 3/8" Long X 24" Dia. Flange
 Drum Rope Capacity: 1312 Ft. of 5/8" Dia. Wire Rope min. within 9 layers
 Load Holding via Torque Converter: 5800 Lbs. min. without use of brake
 Both drums rotate in same direction and wind rope in over drum



TWO DRUM HOIST ASSEMBLY
NOT TO SCALE

PREPARED BY F. Wong	COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS
DATE 01-25-10	PACOIMA DAM AND RESERVOIR
SCALE NONE	PURCHASE OF AN LPG ENGINE DRIVEN DOUBLE DRUM WINCH HOIST ASSEMBLY
REV. 1.0	